

# GSF DEVELOPMENT DRILLER II

ULTRA-DEEPWATER SEMI-SUBMERSIBLE



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### General Description

<b>Design / Generation</b>	EXD Semisubmersible Friede & Goldman, Ltd.
<b>Constructing Shipyard</b>	Jurong, Singapore
<b>Year Entered Service / Significant Upgrades</b>	2005
<b>Classification</b>	ACC, ABS, A1, AMS, DPS-2
<b>Flag</b>	Vanuatu
<b>Dimensions</b>	375 ft. long x 288 ft. wide x 28 ft. deep
<b>Drafts</b>	65.6 ft. operating / 27.6 ft. transit
<b>Accommodation</b>	176 persons
<b>Displacement</b>	46,507 lt. operating / 32,804 lt. transit
<b>Variable Deck</b>	15,432 kips operating / 11,023 kips transit
<b>Transit Speed</b>	up to 6 knots
<b>Maximum Water Depth</b>	7,500 ft. designed / 7,500 ft. outfitted
<b>Maximum Drilling Depth</b>	37,500 ft.

### Drilling Equipment

<b>Derrick</b>	Bailey, 228 ft. high, with 52 ft. long, 57 ft. wide base
<b>Hookload Capacity</b>	2,000,000 lbs. maximum rated static hook load (combined)
<b>Drawworks</b>	(Main) NOV / Hitech AHD 1000 with 6 x 1150 hp electric motors; 2,000,000 lbs rated with 2 inch drilling line (Aux) NOV / Hitech AHD 500 with 4 x 1150 hp electric motors; 1,000,000 lbs rated with 1-3/4 inch drilling line
<b>Compensator</b>	(Main) Active heave drawworks, see above (Aux) Active heave drawworks, see above
<b>Rotary Table</b>	(Main) Varco RST-605, 60 inch hydraulic, 1,000 st. static. (Aux) Varco RST-495 49-1/2 inch, hydraulic, 500 st. static.
<b>Top Drive</b>	(Main) Hydralift HPS-1000 2E(AC) 1,000 st. capacity, with 2 x GEB AC 1,150 hp. motors, rated to 78,450 ft.-lbs. maximum continuous drilling torque (Aux) Hydralift HPS-500 E(AC) 500 st. capacity, with 1 x GEB AC 1,150 hp. motor, rated to 62,500 ft.-lbs. maximum continuous drilling torque
<b>Tubular Handling</b>	2 x Hydralift ARN-166 Iron Roughneck and 2 x Hydralift T2906-D1122-G0002 Bridge Racker pipe racking system
<b>Mud Pumps</b>	4 x National 14-P-220 triplex 7,500 psi pumps, each driven by 2 x GEB-22A2 AC 1,150 hp. motors.
<b>HP Mud System</b>	Rated for 7,500 psi
<b>Solids Control</b>	2 x Swaco Gumbo-X primary scalper conveyor; 7 x Swaco BEM-600 cascading shale shakers

### Power & Machinery

<b>Main Power</b>	8 x Caterpillar 3612 5,100 hp diesel engines, each running 1 x ABB AMG 0710 11,000 volts at 900 rpm generator.
<b>Emergency Power</b>	1 Caterpillar 3516 2413 hp diesel engine rated 1,370 kW, 1,800 rpm driving 1 x SR4B 1,825kW generator.

### Storage Capacities

<b>Fuel Oil</b>	20,290 bbl
<b>Liquid Mud</b>	7,050 bbls. Active / 11,900 bbls. Reserve
<b>Base Oil</b>	4,535 bbl
<b>Brine</b>	4,868 bbl
<b>Drill Water</b>	14,490 bbl
<b>Potable Water</b>	4,750 bbl
<b>Bulk Material</b>	(mud + cement) 27,395 cu.ft
<b>Sack Storage</b>	5,200 sacks

### BOP & Subsea Equipment

<b>BOP Rams</b>	Hydril Compact 18-3/4 inch 15,000 psi. pressure capability; 6 x ram preventer; (2 x doubles + 2 x singles).
<b>BOP Annulars</b>	2 x Hydril GX 18-3/4 inch 10,000 psi pressure capability annular preventer
<b>BOP Handling</b>	Elevator with 400 mt capacity main hoists 2 x 100t auxiliary winches service hoists
<b>Marine Riser</b>	Kvaerner Clip 21 in., min yield 80,000 psi, 75 ft. long per joint. Riser Buoyancy 54 in. OD
<b>Tensioners</b>	12 x Hydralift Inverted riser tensioners, 250 kip each; (150 in. stroke)
<b>Diverter</b>	Vetco CSO 20 inch 500/1000 psi diverter with 16 in. flow line
<b>Tree Handling</b>	Hydralift 200 mt Xmas tree trolley with Hydralift 750 mt Xmas tree skid carts
<b>Moonpool</b>	132 ft. length x 25 ft. width

### Station Keeping / Propulsion System

<b>Thrusters</b>	8 x ABB Compact Azipod 4,300 hp, azimuthing nozzled fixed blade thruster (2 x per corner)
<b>DP System</b>	Kongsberg Simrad SDPM DP-2+
<b>Mooring System</b>	8 Bodewes electric 1,150 hp drum winches with 8 x Bridon Dyform mooring lines consisting of 10,500 ft. of 3.5 inch wire line and 8 x 3,240 ft. of 3.25 inch stud link chain, with 8 x 14.75 ft. Vryhof Stevpris MK5 anchors.

### Cranes

<b>Cranes #1 &amp; #2</b>	2 x Leibherr MTC 6000-150 173 ft. boom 165 st at 71 ft. radius.
<b>Crane #3</b>	1 x Hydralift 115 ft. boom 11st at 115 ft. radius knuckle-boom cranes.

### Other Information

<b>Helideck</b>	Rated for M18 or EH101 helicopters, 88 ft. diameter
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Revision Date: 23 June 2014

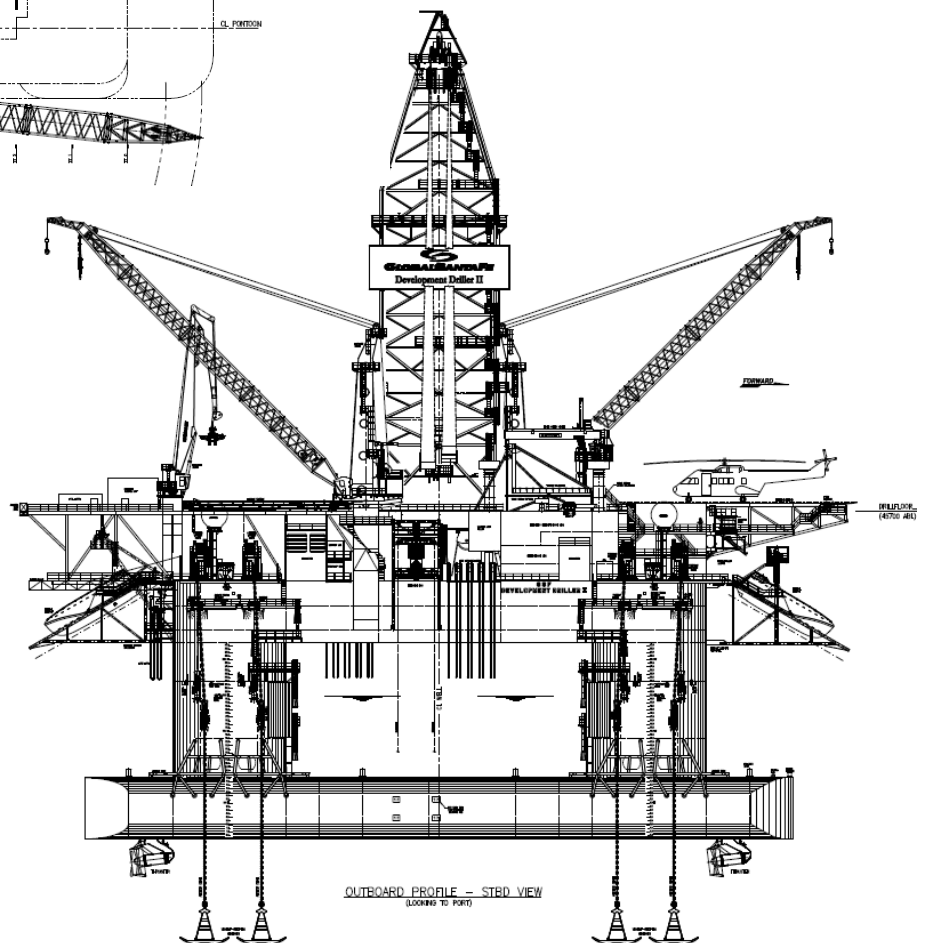
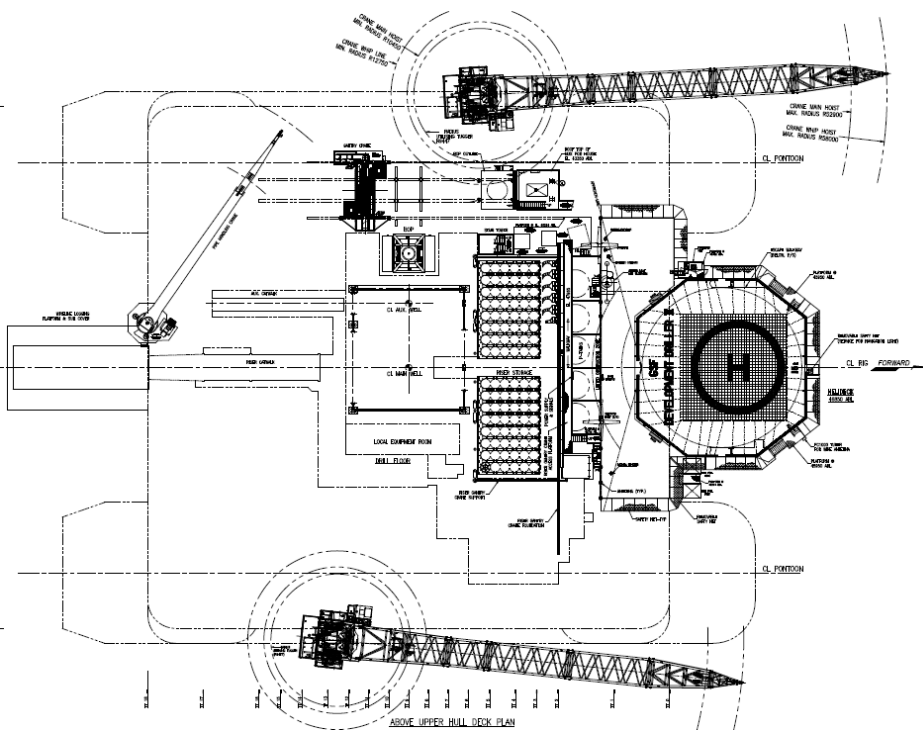


These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating manuals, policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.

Patent Notice: This rig, its systems, components, and/or equipment in use on this rig, may be protected by one or more US and/or foreign patents.

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## BOUNDLESS

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**SERVICE FOCUSED  
DATA DRIVEN  
PERFORMANCE ORIENTED**

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